What is claimed is:

- 1. An apparatus for use in an application
- 2 including at least one of clamping and valving, the
- 3 apparatus comprising:
- a support structure; and
- 5 actuator means for operating the support
- 6 structure between a rest position and an actuated
- 7 position.
- 1 2. The apparatus of claim 1 wherein the
- 2 actuator means is a piezoelectric device.
- 1 3. The apparatus of claim 2 wherein the
- 2 support structure is a single piece.
- 1 4. The apparatus of claim 2 wherein the
- 2 support structure is a mechanically active element of the
- 3 apparatus.
- 1 5. The apparatus of claim 2 wherein the
- 2 support structure includes opposing resilient arm
- 3 portions biased to the rest position.
- 1 6. The apparatus of claim 5 wherein the arm
- 2 portions are driven from the rest position to the
- 3 actuated position in response to actuation of the
- 4 actuator means.
- 7. The apparatus of claim 6 wherein the arm
- 2 portions are biased to return to the rest position from
- 3 the actuated position in response to deactuation of the
- 4 actuator means.
- 1 8. The apparatus of claim 2 wherein the
- 2 support structure is made from one or more materials.

- 9. The apparatus of claim 2 wherein the support structure is made from at least two materials bonded together.
- 10. The apparatus of claim 2 wherein the
 2 actuator means produces a spatial displacement when
 3 actuated and the support structure includes a pair of
 4 opposing arms disposed relative to the actuator for
 5 amplifying the spatial displacement.
- 11. In an apparatus for use in an application 2 including at least one of clamping and valving having a 3 support structure and piezoelectric actuator, the 4 improvement comprising:
- the support structure being a single piece.
- 1 12. The improvement of claim 11 wherein the 2 support structure is a mechanically active element of the 3 apparatus.
- 1 13. The improvement of claim 11 wherein the 2 support structure includes opposing resilient arm 3 portions biased to a rest position.
- 1 14. The improvement of claim 13 wherein the 2 arm portions are driven from the rest position to an 3 actuated position in response to actuation of the 4 actuator.
- 1 15. The improvement of claim 14 wherein the 2 arm portions are biased to return to the rest position 3 from the actuated position in response to deactuation of 4 the actuator.
- 1 16. The improvement of claim 11 wherein the support structure is made from one or more materials.

- 1 17. The improvement of claim 11 wherein the support structure is made from at least two materials bonded together.
- 1 18. The improvement of claim 11 wherein the 2 actuator produces a spatial displacement when actuated 3 and the support structure includes a pair of opposing 4 arms disposed relative to the actuator for amplifying the 5 spatial displacement.